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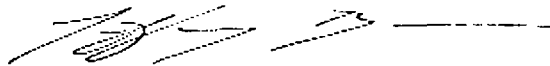
## ANALYTICAL REPORT

Job Number: 580-6230-1

Job Description: Puget Sound Truck Line - Seattle

For:  
Western States Environmental  
1320 26th Street NW # 13  
Auburn, WA 98001

Attention: Jennifer Ulmer



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Tiffany Ryan  
Project Mgmt. Assistant  
tryan@stl-inc.com  
06/27/2007

Project Manager: Heather Curbow

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Severn Trent Laboratories, Inc.  
STL Seattle 5755 8th Street East, Tacoma, WA 98424  
Tel (253) 922-2310 Fax (253) 922-5047 www.stl-inc.com



## METHOD SUMMARY

Client: Western States Environmental

Job Number: 580-6230-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
ICP Metals by 200.7 CWA	STL SEA	40CFR136A	200.7 Appx C
Total Metals Digestion for 200.7	STL SEA		EPA 200.7
pH, Electrometric	STL SEA	MCAWW	150.1
HEM and SGT-HEM by Extraction and Gravimetry	STL SEA	1664A	1664A
HEM and SGT-HEM by Extraction and	STL SEA		1664A 1664A
Turbidity, Nephelometric	STL SEA	MCAWW	180.1

### LAB REFERENCES:

STL SEA = STL Seattle

### METHOD REFERENCES:

1664A - EPA-821-98-002

40CFR136A - "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW - "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

## SAMPLE SUMMARY

Client: Western States Environmental

Job Number: 580-6230-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-6230-1	PSTL SEA	Water	06/15/2007 1030	06/15/2007 1335

## Analytical Data

Client: Western States Environmental

Job Number: 580-6230-1

Client Sample ID: PSTL SEA

Lab Sample ID: 580-6230-1

Date Sampled: 06/15/2007 1030

Client Matrix: Water

Date Received: 06/15/2007 1335

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### 200.7 Appx C ICP Metals by 200.7 CWA

Method: 200.7 Appx C

Analysis Batch: 580-19911

Instrument ID: SEA027

Preparation: 200.7

Prep Batch: 580-19876

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 06/25/2007 1855

Final Weight/Volume: 50 mL

Date Prepared: 06/25/2007 1253

Analyte	Result (mg/L)	Qualifier	RL
Zinc	0.25		0.040

**Analytical Data**

Client: Western States Environmental

Job Number: 580-6230-1

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**General Chemistry****Client Sample ID: PSTL SEA**

Lab Sample ID: 580-6230-1

Date Sampled: 06/15/2007 1030

Client Matrix: Water

Date Received: 06/15/2007 1335

Analyte	Result	Qual	Units	Dil	Method
pH	6.74		SU	1.0	150.1
Any Batch: 580-19601 Date Analyzed 06/15/2007 1535					

Analyte	Result	Qual	Units	RL	Dil	Method
HEM (Oil & Grease)	6.8		mg/L	4.8	1.0	1664A
Any Batch: 580-19858 Date Analyzed 06/25/2007 1015						
Prep Batch: 580-19857 Date Prepared: 06/25/2007 1014						
Turbidity	170		NTU	0.10	1.0	180.1
Any Batch: 580-19689 Date Analyzed 06/15/2007 1452						

## Quality Control Results

Client: Western States Environmental

Job Number: 580-6230-1

### Method Blank - Batch: 580-19876

### Method: 200.7 Appx C

### Preparation: 200.7

Lab Sample ID: MB 580-19876/19-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/25/2007 1748  
Date Prepared: 06/25/2007 1253

Analysis Batch: 580-19911  
Prep Batch: 580-19876  
Units: mg/L

Instrument ID: SEA027  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Zinc	ND		0.040

### Lab Control Spike/

### Lab Control Spike Duplicate Recovery Report - Batch: 580-19876

### Method: 200.7 Appx C

### Preparation: 200.7

LCS Lab Sample ID: LCS 580-19876/20-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/25/2007 1805  
Date Prepared: 06/25/2007 1253

Analysis Batch: 580-19911  
Prep Batch: 580-19876  
Units: mg/L

Instrument ID: SEA027  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-19876/21-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/25/2007 1808  
Date Prepared: 06/25/2007 1253

Analysis Batch: 580-19911  
Prep Batch: 580-19876  
Units: mg/L

Instrument ID: SEA027  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Zinc	101	98	80 - 120	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Western States Environmental

Job Number: 580-6230-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 580-19876

Method: 200.7 Appx C  
Preparation: 200.7

MS Lab Sample ID: 580-6212-B-1-C MS      Analysis Batch: 580-19911  
Client Matrix: Water                      Prep Batch: 580-19876  
Dilution: 1.0  
Date Analyzed: 06/25/2007 1757  
Date Prepared: 06/25/2007 1253

Instrument ID: SEA027  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-6212-B-1-D MSD      Analysis Batch: 580-19911  
Client Matrix: Water                      Prep Batch: 580-19876  
Dilution: 1.0  
Date Analyzed: 06/25/2007 1759  
Date Prepared: 06/25/2007 1253

Instrument ID: SEA027  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Zinc	94	96	75 - 125	2	20		

### Duplicate - Batch: 580-19876

Method: 200.7 Appx C  
Preparation: 200.7

Lab Sample ID: 580-6212-B-1-B DU      Analysis Batch: 580-19911  
Client Matrix: Water                      Prep Batch: 580-19876  
Dilution: 1.0                              Units: mg/L  
Date Analyzed: 06/25/2007 1755  
Date Prepared: 06/25/2007 1253

Instrument ID: SEA027  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Zinc	ND	0.0258	3	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Western States Environmental

Job Number: 580-6230-1

### Duplicate - Batch: 580-19601

Method: 150.1  
Preparation: N/A

Lab Sample ID: 580-6226-E-1 DU  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/15/2007 1535  
Date Prepared: N/A

Analysis Batch: 580-19601  
Prep Batch: N/A  
Units: SU

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	6.15	6.140	0	1	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Western States Environmental

Job Number: 580-6230-1

### Method Blank - Batch: 580-19857

Lab Sample ID: MB 580-19857/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/25/2007 1015  
Date Prepared: 06/25/2007 1014

Analysis Batch: 580-19858  
Prep Batch: 580-19857  
Units: mg/L

### Method: 1664A Preparation: 1664A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	RL
HEM (Oil & Grease)	ND		5.0

### Lab Control Spike/

### Lab Control Spike Duplicate Recovery Report - Batch: 580-19857

### Method: 1664A Preparation: 1664A

LCS Lab Sample ID: LCS 580-19857/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/25/2007 1015  
Date Prepared: 06/25/2007 1014

Analysis Batch: 580-19858  
Prep Batch: 580-19857  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1000 mL

LCSD Lab Sample ID: LCSD 580-19857/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/25/2007 1015  
Date Prepared: 06/25/2007 1014

Analysis Batch: 580-19858  
Prep Batch: 580-19857  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1000 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
HEM (Oil & Grease)	90	85	79 - 114	5	18		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Western States Environmental

Job Number: 580-6230-1

### Method Blank - Batch: 580-19689

**Method: 180.1**  
**Preparation: N/A**

Lab Sample ID: MB 580-19689/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/15/2007 1452  
Date Prepared: N/A

Analysis Batch: 580-19689  
Prep Batch: N/A  
Units: NTU

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: mL

Analyte	Result	Qual	RL
Turbidity	ND		0.10

### Lab Control Spike - Batch: 580-19689

**Method: 180.1**  
**Preparation: N/A**

Lab Sample ID: LCS 580-19689/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/15/2007 1452  
Date Prepared: N/A

Analysis Batch: 580-19689  
Prep Batch: N/A  
Units: NTU

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Turbidity	6.01	6.18	103	80 - 120	

### Duplicate - Batch: 580-19689

**Method: 180.1**  
**Preparation: N/A**

Lab Sample ID: 580-6212-C-1 DU  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/15/2007 1452  
Date Prepared: N/A

Analysis Batch: 580-19689  
Prep Batch: N/A  
Units: NTU

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Turbidity	1.8	1.78	2	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Abstract**

**STL Seattle**  
**5755 8th Street E.**  
**Tacoma, WA 98424**  
**Tel. 253-922-2310**  
**Fax 253-922-5047**  
**[www.stl-inc.com](http://www.stl-inc.com)**

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## LOGIN SAMPLE RECEIPT CHECK LIST

Client: Western States Environmental

Job Number: 580-6230-1

Login Number: 6230

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No Ice
Cooler Temperature is acceptable.	NA	
Cooler Temperature is recorded.	NA	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	